XVIVO LS™
For evaluating lungs by EVLP

NOT APPROVED BY THE FDA
**XVIVO LS™ - PROVIDES A METHOD FOR EVALUATING LUNGS BY EVLP**

ExVivo Lung Perfusion (EVLP) can potentially increase the number of donor lungs suitable for transplantation. The XVIVO LS™ is a lung evaluation device that is designed to simplify EVLP.

**XVIVO LS™**
- A compact, user-friendly device
- Intuitive step by step phases to guide you through the EVLP process:
  - **Priming:** The XVIVO LS™ and Disposable Lung Set™ (DLS™) are prepared for use
  - **Warming:** Circulation of evaluation solution and ventilation of the lungs
  - **Evaluation:** Deoxygenated solution is circulated and the lung function can be tested
  - **Cooling:** The lung is cooled to preferred temperature
  - **Storage:** The lung is stored and kept moist until time of transplantation
- A dual screen which allows all users simultaneous access to clinical information.
- Controlled and interconnected measurement of pressure and flow during lung perfusion to minimize risk of organ damage
- Proactive user guidance to support real time trouble shooting.

**XVIVO LS™ Disposable Lung Set™ (DLS™)**
- The DLS™ is tailor-made for XVIVO LS™.
- DLS™ is pre-assembled, enabling simple and quick set-up and priming.
- The donor lung is kept in the same disposable unit throughout the EVLP process.

**THE SCANDINAVIAN EVLP METHOD**

The XVIVO LS™ enables evaluation of marginal donor lungs according to a complete and standardized method.
- STEEN Solution™
- HCT of 10-15%
- Perfusion flow: 100% cardiac output
- Open left atrium

**CLINICAL EXPERIENCE FROM COPENHAGEN UNIVERSITY HOSPITAL**

Copenhagen University hospital established an EVLP program to increase lung transplantations. Using the XVIVO LS™ system, marginal lungs were perfused and evaluated in accordance with the Scandinavian method and the number of lung transplantations was increased.

"...Seven pairs of lungs that would normally be deemed unsuitable because they failed to meet the usual criteria for transplantation were used for transplantation after EVLP. Thus, seven out of 33 (21%) Danish lung transplantations in the period were made possible as a result of EVLP..."


<table>
<thead>
<tr>
<th>Before EVLP</th>
<th>After EVLP</th>
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<td>173</td>
<td>441</td>
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Median PaO2 / FiO2 values from seven lungs before and after EVLP at Copenhagen University Hospital.

Donor offers and lung transplantations in Denmark, from 1 May 2012 to 30 April 2013.

133 pairs of donor lungs offered
39 suitable for transplantation
94 not suitable for transplantation
8 treated with EVLP
26 transplanted in Denmark
10 in other countries
3 not used due to lack of suitable recipients
7 transplanted
1 not approved
8 treated with EVLP

Ventilator
Temp. probe
Pressure, PA
Oxygenator
Leukocyte filter
Pump
Oxygenator
HCU
EVLP Training and Education

It is XVIVO Perfusion’s pleasure to invite you to an EVLP workshop in Lund, Sweden. These comprehensive workshops are organized by XVIVO Perfusion and Professor Stig Steen, Lund University, Sweden.

The two-day workshop provides hands-on experience of EVLP and will cover both the theoretical and practical aspects of EVLP.

- Basic principles of normothermic EVLP
- Practical use of the XVIVO LS™ and XPS™ systems
- Current world wide experience
- The Scandinavian EVLP method and the Toronto method

For more information please contact XVIVO Perfusion at: info@xvivoperfusion.com

About XVIVO Perfusion

XVIVO Perfusion is a medical technology company focused on developing optimized solutions for organ, tissue and cell preservation and perfusion in connection with transplantation. The company is firmly rooted in medical science.

Our mission is to increase the survival rates of patients awaiting transplantation by supporting transplant teams in every way we can.

We provide our customers with solutions and systems that can improve the transplant process outcome and expand the organ donor pool.

Publications


The XVIVO LS™ and DLS™ are not approved for sale in the USA.